

National Type Evaluation Program
Certificate of Conformance
for Weighing and Measuring Devices

For:

Addenda to Certificates of Conformance
Vapor Recovery Option for
Retail Motor Fuel Dispensers
Model: See Page 2

Submitted by:

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Standard Features and Options

The vapor vac kit model number, dispenser model, dispenser description, and corresponding NTEP Certificates of Conformance are listed in the table on Page 2.

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: December 1, 1999

Gilbert M. Ugiansky, Ph.D.
Chief, Office of Weights and Measures
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Marconi Commerce Systems Inc.
Vapor Recovery Option for Retail Motor Fuel Dispensers

System Description: The vacuum-assist vapor recovery option for the ADVANTAGE Series consists of an explosion-proof motor driving a vacuum pump. The motor(s)/pump(s) are located in the hydraulics section of the dispenser. An electronic vacuum pump-controller PC board is located in the electronics section of the dispenser. The controller PC board monitors the rate at which gasoline is dispensed and proportionally controls the motor(s)/pump(s) speed. The vapors are recovered at a rate that is proportional to the product flow rate. Each hose is equipped with an electrically-operated vapor valve, isolating hoses not being used.

Application: The retrofit kits covered on this Certificate will be used to upgrade non-vapor recovery or balance vapor recovery dispensers to the VaporVac vacuum assist vapor recovery system. The retrofit kits have been designed and packaged to facilitate field installation. The vapor recovery components currently used in the ADVANTAGE have been repackaged into the upper canopy portion of the dispenser. Test Conditions for VaporVac on Certificate of Conformance Number 90-115A3 (latest version, 90-115A9) are listed below for reference.

Identification: The VaporVac vapor recovery system retrofit kit may be installed as an option on the following dispensers.

VaporVac Kit Model Number	Used With Dispenser Model	Dispenser Description		NTEP CC#	
		Model	Grade *	Gilbarco	Marconi
CV0001	ANXXXX	MPD-1	3	89-019A1	99-168
	ARXXXX	MPD-1	3	89-019A1	99-168
	AKXXXX	MPD-2	3	87-077A2	99-162
	ALXXXX	MPD-3	3	87-077A2	99-162
CV0002	BXX	ADVANTAGE	4	90-115A9	99-173
CV0003	BXX	ADVANTAGE	3	90-115A9	99-173
CV0004	ANXXXX	MPD-1	4	89-019A1	99-168
	ARXXXX	MPD-1	4	89-019A1	99-168
	AKXXXX	MPD-2	4	87-077A2	99-162
	ALXXXX	MPD-3	4	87-077A2	99-162
CV0005	BXX	ADVANTAGE	2	90-115A9	99-173
CV0006	BXX	ADVANTAGE	S	90-115A9	99-173
CV0007	BXX	ADVANTAGE	F	90-115A9	99-173
CV0008	BXX	ADVANTAGE	SB	90-115A9	99-173
CV0009	BXX	ADVANTAGE	SB	90-115A9	99-173
CV0010	BXX	ADVANTAGE	SB	90-115A9	99-173
CV0011	BXX	ADVANTAGE	Q	90-115A9	99-173
CV0012	BXX	ADVANTAGE	D	90-115A9	99-173
CV0013	ANXXXX	MPD-1	3\17	89-019A1	99-168
	ARXXXX	MPD-1	3\17	89-019A1	99-168
	AKXXXX	MPD-2	3\17	87-077A2	99-162
	ALXXXX	MPD-3	3\17	87-077A2	99-162
CV0014	BXX	ADVANTAGE	3\S	90-115A9	99-173

* GRADE KEY		
2 - 2 Grade	S - Single Hose	SB - Selectable Blender
3 - 3 Grade	F - Fixed Blender	3\S - Grade to Single Hose
4 - 4 Grade	Q - Quad	3\17 - 3 Grade with 17 inch upper housing
	D - Dual	

**Marconi Commerce Systems Inc.
Vapor Recovery Option for Retail Motor Fuel Dispensers**

Test Conditions: This Certificate is issued based upon information provided by the manufacturer to change the name of the company from the previous name, Gilbarco Inc., and to transfer ownership of the device covered under Certificate of Conformance Number 93-021 to Marconi Commerce Systems Inc. All institutional knowledge of the previous owner has been transferred to the new company. Test conditions for Certificate of Conformance Number 93-021 are listed below for reference.

Certificate of Conformance Number 93-021: The VaporVac was covered as an option under Certificate of Conformance Number 90-115A3 (latest version, 90-115A9). The "**VaporVac**" system (see California Air Resources Board Certificate # G-70-52) and OPW 11-VAI bootless nozzles were installed on each of six Advantage Series dispensers. The "10 click" override test and a 150-car refueling test were conducted at the field site. The emphasis of this evaluation was on the operation and compliance of the nozzle liquid primary shutoff and anti-drain valve.

The results of the evaluations indicate the device complies with applicable requirements of NIST Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 1999 Edition

Information Reviewed By: R. Wothlie (MD/NIST) 93-021; L. Sebring (NIST) and G. Newrock (NIST) 99-179